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(54) Title: LITHOGRAPHIC PRINTING MEMBERS AND A METHOD AND A SYSTEM FOR PREPARATION OF LITHOGRAPHIC PRINTING MEMBERS

(57) Abstract: Lithographic printing members and a method and system for fabricating them is provided. The printing member may comprise a base layer, a laser-absorbing layer, which may be a gradient solid dispersion of metal and metal-oxide areas, and a coating layer. The concentration ratios between the metal and the metal-oxide vary throughout a thickness of the laser-absorbing layer and the coating layer and the base layer have different affinities for ink. The method of fabricating the printing member may comprise preparing on demand for a single use a liquid-based coating material, pouring the coating material onto a substrate that may comprise a base layer and a laser-absorbing layer and laminating a form film onto the liquid-based coating material to form a coating layer.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G03F 7/09, 7/11

US CL : 430/271.1, 273.1, 275.1, 302, 494; 101/ 130, 453, 463.1, 465, 466, 467

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 430/271.1, 273.1, 275.1, 302, 494; 101/ 130, 453, 463.1, 465, 466, 467

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,068,965 A (HAUQUIER et al) 30 May 2000 (30.05.2000), abstract; column 2, lines 49-57; column 3, lines 1-67; claims 1-10.	1-23
Y	US 5,950,542 A (HARRIS et al) 14 September 1999 (14.09.1999), abstract; column 5, lines 35-67; claims 1-24.	1-23
Y	US 6,321,652 B1 (FUJINAMI et al) 27 November 2001 (27.11.2001), abstract; Figure 9; claims 1-27.	13-19
A	US 5,985,515 A (VAN ROMPUY et al) 16 November 1999 (16.11.1999), abstract; whole document.	1-23
A	US 5,908,731 A (LEENDERS et al) 01 June 1999 (01.06.1999), abstract; whole document.	1-23



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